

What is claimed is:

1. A method for identifying a subject as a candidate for a particular clinical course of therapy to treat a vascular disease or disorder comprising the steps of:
 - 5 a) determining the identity of the nucleotides present at nucleotide positions 594 and/or 8401 of SEQ ID NO:1, or the complement thereof; and
 - b) identifying the subject as a candidate for a particular clinical course of therapy based on the identity the nucleotides present at nucleotide positions 594 and/or 8401 of SEQ ID NO:1, or the complement thereof.
- 10 2. The method of claim 1, wherein determining the identity of the nucleotides is by obtaining a nucleic acid sample from the subject.
3. The method of claim 1, wherein the clinical course of therapy is use of a
 - 15 medical device.
4. The method of claim 1, wherein the clinical course of therapy is use of a surgical procedure.
- 20 5. The method of claim 3, wherein said medical device is selected from the group consisting of: a defibrillator, a stent, a device used in coronary revascularization, a pacemaker, and any combination thereof.
6. The method of claim 3, wherein said medical device is used in combination
 - 25 with a modulator of F7 gene expression or F7 polypeptide activity.
7. The method of claim 4, wherein said surgical procedure is selected from the group consisting of: percutaneous transluminal coronary angioplasty, laser angioplasty, implantation of a stent, coronary bypass grafting, implantation of a defibrillator, implantation

of a pacemaker, and any combination thereof.

8. A method for identifying a subject who is a candidate for further diagnostic evaluation for a vascular disease or disorder comprising the steps of:

- 5 a) determining the identity of the nucleotides present at nucleotide positions 594 and/or 8401 of SEQ ID NO:1, or the complement thereof; and
- b) identifying the subject as a subject who is a candidate for further diagnostic evaluation for a vascular disease or disorder based on the identity of the nucleotides present at nucleotide positions 594 and/or 8401 of SEQ ID NO:1, or the
- 10 complement thereof.

9. The method of claim 8, wherein determining the identity of the nucleotides is by obtaining a nucleic acid sample from the subject.

- 15 10. The method of claim 8, wherein said further diagnostic evaluation consists of use of one or more vascular imaging devices.

11. The method of claim 10, wherein said vascular imaging device is selected from the group consisting of: angiography, cardiac ultrasound, coronary angiogram,
- 20 magnetic resonance imagery, nuclear imaging, CT scan, myocardial perfusion imagery, electrocardiogram, and any combination thereof.

12. The method of claim 8, wherein further diagnostic evaluation is selected from the group consisting of: genetic analysis, familial health history analysis, lifestyle analysis,
- 25 exercise stress tests, and any combination thereof.

13. A method for selecting a clinical course of therapy to treat a subject who is at risk for developing a vascular disease or disorder comprising the steps of:

- a) determining the identity of the nucleotides present at nucleotide

positions 594 and/or 8401 of SEQ ID NO:1, or the complement thereof; and

b) selecting a clinical course of therapy for treatment of a subject who is at risk for developing a vascular disease or disorder based on the identity of the nucleotides present at nucleotide positions 594 and/or 8401 of SEQ ID NO:1, or the complement thereof.

14. The method of claim 13, wherein determining the identity of the nucleotides is by obtaining a nucleic acid sample from the subject.

15. The method of claim 13, wherein the clinical course of therapy comprises use of a medical device for treating a vascular disease or disorder.

16. The method of claim 15, wherein said medical device is selected from the group consisting of: a defibrillator, a stent, a device used in coronary revascularization, a pacemaker, and any combination thereof.

17. The method of claim 15, wherein said medical device is used in combination with a modulator of modulators of F7 gene expression or F7 polypeptide activity.

18. The method of claim 13, wherein said clinical course of therapy is use of a surgical procedure.

19. The method of claim 18, wherein said surgical procedure is selected from the group consisting of: percutaneous transluminal coronary angioplasty, laser angioplasty, implantation of a stent, coronary bypass grafting, implantation of a defibrillator, implantation of a pacemaker, and any combination thereof.

20. A method for determining whether a subject will benefit from implantation of a stent comprising the steps of:

- a) determining the identity of the nucleotides present at nucleotide positions 594 and/or 8401 of SEQ ID NO:1, or the complement thereof; and
- b) determining whether a subject will benefit from implantation of a stent based on the identity of the nucleotides present at nucleotide positions 594 and/or 8401 of SEQ ID NO:1, or the complement thereof.

21. The method of claim 20, wherein determining the identity of the nucleotides is by obtaining a nucleic acid sample from the subject.

22. A method for determining whether a subject will benefit from use of a vascular imaging procedure comprising the steps of:

- a) determining the identity of the nucleotides present at nucleotide positions 594 and/or 8401 of SEQ ID NO:1, or the complement thereof; and
- b) determining whether a subject will benefit from use of a vascular imaging procedure based on the identity of the nucleotides present at nucleotide positions 594 and/or 8401 of SEQ ID NO:1, or the complement thereof.

23. The method of claim 22, wherein determining the identity of the nucleotides is by obtaining a nucleic acid sample from the subject.

24. The method of claim 22, wherein said vascular imaging procedure is selected from the group consisting of angiography, cardiac ultrasound, coronary angiogram, magnetic resonance imagery, nuclear imaging, CT scan, myocardial perfusion imagery, electrocardiogram, and any combination thereof.

25. A method for determining whether a subject will benefit from a surgical procedure comprising the steps of:

- a) determining the identity of the nucleotides present at nucleotide

positions 594 and/or 8401 of SEQ ID NO:1, or the complement thereof; and

b) determining whether a subject will benefit from a surgical procedure based on the identity of the nucleotides present at nucleotide positions 594 and/or 8401 of SEQ ID NO:1, or the complement thereof.

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26. The method of claim 25, wherein determining the identity of the nucleotides is by obtaining a nucleic acid sample from the subject.

27. The method of claim 25, wherein said surgical procedure is selected from the group consisting of percutaneous transluminal coronary angioplasty, laser angioplasty, implantation of a stent, coronary bypass grafting, implantation of a defibrillator, implantation of a pacemaker, and any combination thereof.

28. A method for selecting an effective vascular imaging device as a diagnostic tool in a subject comprising the steps of:

a) determining the identity of the nucleotides present at nucleotide positions 594 and/or 8401 of SEQ ID NO:1, or the complement thereof; and
b) selecting an effective vascular imaging device as a diagnostic tool for said subject based on the identity of the nucleotides present at nucleotide positions 594 and/or 8401 of SEQ ID NO:1, or the complement thereof.

29. The method of claim 28, wherein determining the identity of the nucleotides is by obtaining a nucleic acid sample from the subject.

30. The method of claim 28, wherein said vascular imaging device is selected from the group consisting of: angiography, cardiac ultrasound, coronary angiogram, magnetic resonance imagery, nuclear imaging, CT scan, myocardial perfusion imagery, electrocardiogram, and any combination thereof.

31. A computer readable medium for storing instructions for performing a computer implemented method for determining whether or not a subject has a predisposition to a vascular disease or disorder, said instructions comprising the functionality of:

obtaining information from the subject indicative of the presence or absence of the polymorphic region of an F7 gene, and
 5 based on the presence or absence of the polymorphic region of an F7 gene, determining whether or not the subject has a predisposition to a vascular disease or disorder.

32. A computer readable medium for storing instructions for performing a computer implemented method for identifying a predisposition to a vascular disease or disorder, said instructions comprising the functionality of:

obtaining information regarding the presence or absence of the polymorphic region of an F7 gene, and
 10 based on the presence or absence of the polymorphic region of an F7 gene, identifying a predisposition to a vascular disease or disorder.

33. An electronic system comprising a processor for determining whether or not a subject has a predisposition to a vascular disease or disorder, said processor implementing the functionality of:

20 obtaining information from the subject indicative of the presence or absence of the polymorphic region of an F7 gene, and

based on the presence or absence of the polymorphic region of an F7 gene, determining whether or not the subject has the predisposition to a vascular disease or disorder.

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34. An electronic system comprising a processor for performing a method for identifying a predisposition to a vascular disease or disorder in a subject, said processor implementing the functionality of:

obtaining information from the subject indicative of the presence or absence of the polymorphic region of an F7 gene, and

based on the presence or absence of the polymorphic region of an F7 gene,
performing a method for identifying a predisposition to a vascular disease or disorder
5 associated with the polymorphic region.

35. The electronic system of claims 33 or 34, wherein said processor further implements the functionality of receiving phenotypic information associated with the subject.

10 36. The electronic system of claims 33 or 34, wherein said processor further implements the functionality of acquiring from a network phenotypic information associated with the subject.

37. A network system for identifying a predisposition to a vascular disease or
15 disorder in response to information submitted by an individual, said system comprising means for:

receiving data from the individual regarding the presence or absence of the polymorphic region of an F7 gene, and

20 based on the presence or absence of the polymorphic region, determining whether or not the subject has the predisposition to the vascular disease or disorder associated with the polymorphic region.

38. A network system for identifying whether or not a subject has a predisposition to a vascular disease or disorder, said system comprising means for:

25 receiving information from the subject regarding the polymorphic region of an F7 gene,

receiving phenotypic information associated with the subject,

acquiring additional information from the network, and

based on one or more of the phenotypic information, the polymorphic region, and the acquired information, determining whether or not the subject has a pre-disposition to a vascular disease or disorder associated with a polymorphic region of an F7 gene.

5 39. The system of claims 37 and 38, wherein the network system comprises a server and a work station operatively connected to said server via the network.

40. A method for determining whether a subject has a pre-disposition to a vascular disease or disorder associated with a polymorphic region of an F7 gene, said method
10 comprising the steps of:

 receiving information associated with the polymorphic region of an F7 gene,
 receiving phenotypic information associated with the subject,
 acquiring information from the network corresponding to an F7 gene, and
 based on one or more of the phenotypic information, the polymorphic region, and the
15 acquired information, determining whether the subject has a pre-disposition to a vascular disease or disorder associated with a polymorphic region of an F7 gene.

41. A method for diagnosing or aiding in the diagnosis of a vascular disease or disorder in a subject comprising the steps of determining the F7 genetic profile of the
20 subject, thereby diagnosing or aiding in the diagnosis of a vascular disease or disorder.

42. The method of claim 41, wherein determining the subject's F7 genetic profile comprises determining the identity of the nucleotides present at nucleotide positions 594 and/or 8401 of SEQ ID NO:1, or the complement thereof.

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43. The method of claim 41, further comprising utilizing a vascular imaging device to diagnose or aid in the diagnosis of a vascular disease or disorder.

44. The method of claim 43, wherein the vascular imaging device is selected from

the group consisting of: angiography, cardiac ultrasound, coronary angiogram, magnetic resonance imagery, nuclear imaging, CT scan, myocardial perfusion imagery, electrocardiogram, and any combination thereof.

5 45. A method for selecting the appropriate drug to administer to a subject who has, or is at risk of developing, a vascular disease or disorder, comprising determining the molecular structure of at least a portion of an F7 gene of the subject.

 46. The method of claim 45, wherein determining the molecular structure
10 comprises determining the identities of the allelic variants of at least one polymorphic region of the F7 gene of the subject.

 47. The method of claim 45, wherein determining the molecular structure
 comprises determining the identities of the allelic variants of at least one polymorphic region
15 of the F7 gene of the subject.

 48. A method for treating a subject having a disease or condition associated with a specific allelic variant of a polymorphic region of an F7 gene, comprising the steps of:
 (a) determining the identity of an F7 allelic variant; and
20 (b) administering to the subject a compound that modulates F7 gene
 expression or protein activity.

 49. The method of claim 48, wherein the specific allelic variant comprises a nucleotide sequence selected from the group consisting of SEQ ID NO:3 or SEQ ID NO:4, or
25 the complement thereof.

 50. A method of diagnosing or aiding in the diagnosis of a vascular disease in a subject comprising the steps of:
 (a) obtaining a nucleic acid sample from the subject; and

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infarction.

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disease, comprising the steps of:

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and/or 8401 of SEQ ID NO:1, or the complement thereof,

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stroke, peripheral vascular diseases, venous thromboembolism and pulmonary embolism.

56. The method of claim 55, wherein the vascular disease is myocardial infarction.

57. The method of claim 55, wherein the vascular disease is coronary artery
 5 disease.

58. An isolated nucleic acid molecule comprising a nucleotide sequence comprising an allelic variant of a polymorphic region of an F7 gene, and allelic variants in linkage disequilibrium therewith, or the complement thereof, wherein the allelic variant
 10 differs from the reference sequence set forth in SEQ ID NO:1, and wherein the allelic variant is associated with vascular disease.

59. A kit comprising probes or primers which are capable of hybridizing to the nucleic acid molecule of claim 58.
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60. The kit of claim 59, wherein the probes or primers comprise a nucleotide sequence from about 15 to about 30 nucleotides.

61. The kit of claim 60, wherein the probes or primers are labeled.
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62. A method for determining the identity of one or more allelic variants of a polymorphic region of an F7 gene in a nucleic acid obtained from a subject, comprising contacting a sample nucleic acid from the subject with probes or primers having sequences which are complementary to an F7, wherein the sample comprises an F7 gene sequence,
 25 thereby determining the identity of one or more of the allelic variants.

63. The method of claim 62, wherein the probes or primers are capable of hybridizing to an allelic variant of a polymorphic region, and wherein the allelic variant differs from the reference sequence set forth in SEQ ID NO:1.

64. The method of claim 63, wherein determining the identity of the allelic variant comprises determining the identity of at least one nucleotide of the polymorphic region of an F7 gene.

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65. The method of claim 63, wherein determining the identity of the allelic variant consists of determining the nucleotide content of the polymorphic region.

66. The method of claim 63, wherein determining the nucleotide content
10 comprises sequencing the nucleotide sequence.

67. The method of claim 63, wherein determining the identity of the allelic variant comprises performing a restriction enzyme site analysis.

68. The method of claim 63, wherein determining the identity of the allelic
15 variant is carried out by single-stranded conformation polymorphism.

69. The method of claim 63, wherein determining the identity of the allelic
variant is carried out by allele specific hybridization.

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70. The method of claim 63, wherein determining the identity of the allelic
variant is carried out by primer specific extension.

71. The method of claim 63, wherein determining the identity of the allelic
25 variant is carried out by an oligonucleotide ligation assay.

72. The method of claim 63, wherein the probe or primer comprises a nucleotide
sequence from about 15 to about 30 nucleotides.

73. An Internet-based method for assessing a subject's risk for vascular disease, the method comprising:

- a) analyzing biological information from a subject indicative of the presence or absence of a polymorphic region of F7;
- 5 b) providing results of the analysis to the subject via the Internet, wherein the presence of a polymorphic region of F7 indicates an increased risk for vascular disease.

74. A method of assessing a subject's risk for vascular disease, the method comprising:

- 10 a) obtaining biological information from the individual;
- b) analyzing the information to obtain the subject's F7 genetic profile;
- c) representing the F7 genetic profile information as digital genetic profile data;
- d) electronically processing the F7 digital genetic profile data to generate a
- 15 risk assessment report for vascular disease, wherein the presence of a polymorphic region of F7 indicates an increased risk for vascular disease; and
- e) displaying the risk assessment report on an output device.

75. A method of assessing a subject's risk for vascular disease, the method comprising:

- 20 a) obtaining the subject's F7 genetic profile information as digital genetic profile data;
- b) electronically processing the F7 digital genetic profile data to generate a risk assessment report for vascular disease, wherein the presence of a polymorphic region of F7
- 25 indicates an increased risk for vascular disease; and
- c) displaying the risk assessment report on an output device.

76. The method of claims 74 or 75, further comprising the step of using the risk assessment report to provide medical advice.

77. The method of claims 74 or 75, wherein additional health information is provided.

5 78. The method of claim 77, wherein the additional health information comprises information regarding one or more of age, sex, ethnic origin, diet, sibling health, parental health, clinical symptoms, personal health history, blood test data, weight, and alcohol use, drug use, nicotine use, and blood pressure.

10 79. The method of claim 75, wherein the F7 digital genetic profile data are transmitted via a communications network to a medical information system for processing.

80. The method of claim 79, wherein the communications network is the Internet.

15 81. A medical information system for assessing a subject's risk for vascular disease comprising:

- a) means for obtaining biological information from the individual to obtain an F7 genetic profile;
- b) means for representing the F7 genetic profile as digital molecular data;
- 20 c) means for electronically processing the F7 digital genetic profile to generate a risk assessment report for vascular disease; and
- d) means for displaying the risk assessment report on an output device, wherein the presence of a polymorphic region of F7 indicates an increased risk for vascular disease.

25 82. A medical information system for assessing a subject's risk for vascular disease comprising:

- a) means for representing the subject's F7 genetic profile data as digital molecular data;

b) means for electronically processing the F7 digital genetic profile to generate a risk assessment report for vascular disease; and

c) means for displaying the risk assessment report on an output device, wherein the presence of a polymorphic region of F7 indicates an increased risk for vascular disease.

83. A computerized method of providing medical advice to a subject comprising:

a) analyzing biological information from a subject to determine the subject's F7 genetic profile;

b) based on the subject's F7 genetic profile, determining the subject's risk for vascular disease;

c) based on the subject's risk for vascular disease, electronically providing medical advice to the subject.

84. A computerized method of providing medical advice to a subject comprising:

a) based on the subject's F7 genetic profile, determining the subject's risk for vascular disease;

b) based on the subject's risk for vascular disease, electronically providing medical advice to the subject.

85. The method of claims 83 or 84, wherein the medical advice comprises one or more of the group consisting of further diagnostic evaluation, administration of medication, or lifestyle change.

86. The method of claims 83 or 84, wherein additional health information is obtained from the subject.

87. The method of claim 86, wherein the additional health information comprises information regarding one or more of age, sex, ethnic origin, diet, sibling health, parental

health, clinical symptoms, personal health history, blood test data, weight, and alcohol use, drug use, nicotine use, and blood pressure.

5 88. A method for self-assessing risk for a vascular disease comprising
 a) providing biological information for genetic analysis;
 b) accessing an electronic output device displaying results of the genetic
 analysis, thereby self-assessing risk for a vascular disease, wherein the presence of a
 polymorphic region of F7 indicates an increased risk for vascular disease.

10 89. A method for self-assessing risk for a vascular disease comprising accessing
 an electronic output device displaying results of a genetic analysis of a biological sample,
 wherein the presence of a polymorphic region of F7 indicates an increased risk for vascular
 disease, thereby self-assessing risk for a vascular disease.

15 90. A method of self-assessing risk for vascular disease, the method comprising
 a) providing biological information;
 b) accessing F7 digital genetic profile data obtained from the biological
 information, the F7 digital genetic profile data being displayed via an output device,
 wherein the presence of a polymorphic region of F7 indicates an increased risk for
 20 vascular disease.

 91. A method of self-assessing risk for vascular disease, the method comprising
 accessing F7 digital genetic profile data obtained from biological information, the F7 digital
 genetic profile data being displayed via an output device, wherein the presence of a
 25 polymorphic region of F7 indicates an increased risk for vascular disease.

 92. The method of claims 89 or 91, wherein the electronic output device is
 accessed via the Internet.

93. The method of claims 89 or 91, wherein additional health information is provided.

94. The method of claim 93, wherein the additional health information comprises
5 information regarding one or more of age, sex, ethnic origin, diet, sibling health, parental health, clinical symptoms, personal health history, blood test data, weight, and alcohol use, drug use, nicotine use, and blood pressure.

95. The method of any of claims 88, 89, 90, or 91, wherein the biological
10 information is obtained from a sample from an individual at a laboratory company.

96. The method of claim 95, wherein the laboratory company processes the biological sample to obtain F7 genetic profile data, represents at least some of the F7 genetic profile data as digital genetic profile data, and transmits the F7 digital genetic profile data via
15 a communications network to a medical information system for processing.

97. The method of any of claims 88, 89, 90, or 91, wherein the biological information is obtained from a sample from an individual at a draw station, wherein the draw station processes the biological sample to obtain F7 genetic profile data, and transfers the
20 data to a laboratory company.

98. The method of claim 97, wherein the laboratory company represents at least some of the F7 genetic profile data as digital genetic profile data, and transmits the F7 digital genetic profile data via a communications network to a medical information system for
25 processing.

99. A method for a health care provider to generate a personal health assessment report for an individual, the method comprising counseling the individual to provide a biological sample; authorizing a draw station to take a biological sample from the individual

and transmit molecular information from the sample to a laboratory company, wherein the molecular information comprises the presence or absence of a polymorphic region of F7; requesting the laboratory company to provide digital molecular data corresponding to the molecular information to a medical information system to electronically process the digital molecular data and digital health data obtained from the individual to generate a health assessment report; receiving the health assessment report from the medical information system; and providing the health assessment report to the individual.

100. A method for a health care provider to generate a personal health assessment report for an individual, the method comprising requesting a laboratory company to provide digital molecular data corresponding to the molecular information derived from a biological sample from the individual to a medical information system to electronically process the digital molecular data and digital health data obtained to generate a health assessment report; receiving the health assessment report from the medical information system; and providing the health assessment report to the individual.

101. A method of assessing the health of an individual, the method comprising: obtaining health information from the individual using an input device; representing at least some of the health information as digital health data; obtaining biological information from the individual, wherein the information comprises the presence or absence of a polymorphic region of F7; representing at least some of the information as digital molecular data; electronically processing the digital molecular data and digital health data to generate a health assessment report; and displaying the health assessment report on an output device.

102. The method of claim 101, wherein electronically processing the digital molecular data and digital health data to generate a health assessment report comprises using the digital molecular data and digital health data as inputs for an algorithm or a rule-based system that determines whether the individual is at risk for a specific disorder.

103. The method of claim 101, wherein the individual has or is at risk of developing vascular disease, and wherein electronically processing the digital molecular data and digital health data to generate a health assessment report comprises using the digital molecular data and digital health data as inputs for an algorithm or a rule-based system that
5 determines the individual's prognosis.

104. The method of claim 101, wherein electronically processing the digital molecular data and digital health data comprises using the digital molecular data and digital health data as inputs for an algorithm or a rule-based system based on one or more databases
10 comprising stored digital molecular data and/or digital health data relating to one or more disorders.

105. The method of claim 101, wherein electronically processing the digital molecular data and digital health data comprises using the digital molecular data and digital health data as inputs for an algorithm or a rule-based system based on one or more databases
15 comprising (i) stored digital molecular data and/or digital health data from a plurality of healthy individuals, and (ii) stored digital molecular data and/or digital health data from one or more pluralities of unhealthy individuals, each plurality of individuals having a specific disorder.

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106. The method of either of claims 104 or 105, wherein at least one of the databases is a public database.

107. The method of claim 101, wherein the digital health data and digital
25 molecular data are transmitted via a communications network to a medical information system for processing.

108. The method of claim 107, wherein the communications network is the Internet.

109. The method of claim 107, wherein the input device is a keyboard, touch screen, hand-held device, telephone, wireless input device, or interactive page on a website.

5 110. The method of claim 101, wherein the health assessment report comprises a digital molecular profile of the individual.

111. The method of claim 101, wherein the health assessment report comprises a digital health profile of the individual.

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112. The method of claim 101, wherein the molecular data comprises nucleic acid sequence data, and the molecular profile comprises a genetic profile.

113. The method of claim 101, wherein the molecular data comprises protein
 15 sequence data, and the molecular profile comprises a proteomic profile.

114. The method of claim 101, wherein the molecular data comprises information regarding one or more of the absence, presence, or level, of one or more specific proteins, polypeptides, chemicals, cells, organisms, or compounds in the individual's biological
 20 sample.

115. The method of claim 101, wherein the health information comprises information relating to one or more of age, sex, ethnic origin, diet, sibling health, parental health, clinical symptoms, personal health history, blood test data, weight, and alcohol use,
 25 drug use, nicotine use, and blood pressure.

116. The method of claim 101, wherein the health information comprises current and historical health information.

117. The method of claim 101, further comprising obtaining a second set of biological information at a time after obtaining the first set of biological information; processing the second set of biological information to obtain a second set of information; representing at least some of the second set of information as digital second molecular data; and processing the molecular data and second molecular data to generate a health assessment report.

118. The method of claim 117, further comprising obtaining second health information at a time after obtaining the health information; representing at least some of the second health information as digital second health data and processing the molecular data, health data, second molecular data, and second health data to generate a health assessment report.

119. The method of claim 101, wherein the health assessment report provides information about the individual's predisposition for vascular disease and options for risk reduction.

120. The method of claim 119, wherein the options for risk reduction comprise one or more of diet, exercise, one or more vitamins, one or more drugs, cessation of nicotine use, and cessation of alcohol use.

121. The method of claim 101, wherein the health assessment report provides information about treatment options for a particular disorder.

122. The method of claim 121, wherein the treatment options comprise one or more of diet, one or more drugs, physical therapy, and surgery.

123. The method of claim 101, wherein the health assessment report provides information about the efficacy of a particular treatment regimen and options for therapy adjustment.

5 124. The method of claim 101, further comprising storing the molecular data.

125. The method of claim 124, further comprising building a database of stored molecular data from a plurality of individuals.

10 126. The method of claim 101, further comprising storing the molecular data and health data.

127. The method of claim 126, further comprising building a database of stored molecular data and health data from a plurality of individuals.

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128. The method of claim 126, further comprising building a database of stored digital molecular data and/or digital health data from a plurality of healthy individuals, and stored digital molecular data and/or digital health data from one or more pluralities of unhealthy individuals, each plurality of individuals having a specific disorder.

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129. The method of claim 128, further comprising building a database of stored molecular data and health data from a plurality of individuals.

130. The method of claim 128, further comprising building a database of stored
25 digital molecular data and/or digital health data from a plurality of healthy individuals, and stored digital molecular data and/or digital health data from one or more pluralities of unhealthy individuals, each plurality of individuals having a specific disorder.